APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/841,689	04/23/2001	Stephen Sorkin	RECOP008	4377

			EXAMINER
21912	7590	09/16/2005	BAUM, RONALD

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ART UNIT	PAPER NUMBER
2136	

DATE MAILED: 09/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/841,689	SORKIN ET AL.
	Examiner	Art Unit	
	Ronald Baum	2136	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>27 May 2005</u>.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>3,4,9,29,30 and 35</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>3,4,9,29,30 and 35</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5/27/05</u>.

4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____ .

DETAILED ACTION

1.   This action is in reply to applicant's correspondence of 27 May 2005.

2.   Claims 3,4,9,29,30,35 are pending for examination.

3.   Claims 3,4,9,29,30,35 remain rejected.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed
> in the United States before the invention by the applicant for patent or (2) a patent granted on an application for
> patent by another filed in the United States before the invention by the applicant for patent, except that an
> international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this
> subsection of an application filed in the United States only if the international application designated the United
> States and was published under Article 21(2) of such treaty in the English language.

4.   Claims 3,4,9,29,30,35 remain rejected under 35 U.S.C. 102(e) as being anticipated by

Crosbie et al, "IDIOT - Users Guide", Technical Report TR-96-050, Perdue University,

September 4, 1996.

5.   As per claim 3; "A method for analyzing a logfile produced by a computer network

security system [entire document, as per description in Chapter 5] comprising:

providing a regular expression query associated with a pattern to be searched for in the

logfile [entire document, as per description in Chapter 4 (i.e., the compiled, linked and executed

pattern applied to the audit trail, whereas the regular expression query associated with a pattern is

the (i.e., C++) pattern programs).]; and

using the query to search for the pattern in the logfile [entire document, as per description

in Chapter 4 (i.e., audit trail)];

wherein the pattern is associated with a *sgid* (set group ID) exploit in which a sgid

process is used to spawn another process and

using the query to search for the pattern includes

searching for entries showing that a process has been started by a sgid process

with

effective group ID equal to zero [entire document, as per description in

Chapter 4 (i.e., the compiled, linked and executed pattern applied to the audit trail,

whereas the regular expression query associated with a pattern is the pattern

programs (i.e., pages 2,3,6,10-13,16,29-35,59) whereas the explicit and implicit

use of sgid term is taught (pages 6,25,30,50-54,60), and further, the effective

group ID equal to zero is the same as granted super-user or root permission

status). Further, the use of the '... The boolean expressions in IDIOT are

expressed in a C-like syntax ... (i.e., see pp 39 et seq.)' aspect such that the

boolean expressions are clearly regular expressions per se in the context of search

criteria construction. Further, ' ... They are evaluated left-to-right with short

circuit evaluation. This means that if a component of the guard causes the whole

guard to evaluate to false, evaluation halts. Most guards are specified in

conjunctive normal form — a conjunction of clauses. Conjunction is specified

using the AND operator, which is && in C (and IDIOT). The guard for the

transition exec lpr looks as follows:

```
        {

        this[ERR] = 0 && PID = this[PID] && PROG = this[PROG] &&

        RUID = this[RUID] && (strmatch(".*lpr", this[PROG]) = 1) &&

this[EUID] = 0;

        }
```

This guard is composed of six clauses each separated by a && operator. The full guard is only rue if each of the clauses are individually true. If any clause evaluates to false, the value of the conjunction of these clauses is false, so evaluation halts and the guard evaluates to false... ', clearly encompasses the process initiation and set group/user ID aspects, as broadly interpreted by the examiner, in that via the said "...clauses each separated by a && operator ..." type rules construction, clearly encompasses (at the very least, as far as the parsing and evaluative aspects of the claim limitations) the 'boolean/regular expression' teachings of ' ... a sgid process with effective group ID equal to zero and group ID (gid) not equal to zero.'] and

        group ID (gid) not equal to zero.";

And further as per claim 29; this claim is the apparatus of the method claim 3, and is rejected for the same reasons provided for the claim 3 rejection above;

And further as per claim 35; this claim is the embodied software on computer readable media of the method claim 3, and is rejected for the same reasons provided for the claim 3 rejection above.

6.   Claim 4 *additionally recites* the limitations that; "The method as recited in claim 3,

wherein using the query to search for the pattern further includes

      storing a process ID of the process, and

      searching for processes with a parent process ID equal to the stored process ID [entire

document, as per description in Chapter 4 (i.e., the compiled, linked and executed pattern applied

to the audit trail, whereas the regular expression query associated with a pattern is the pattern

programs (i.e., pages 2,3,6,10-13,16,29-35,59) whereas the explicit and implicit use of the term

PID (pages 10,13,15,17-19,21,22,27-29,31-34,37-40,44,50-56,59) is taught.].";

      And further as per claim 30; this claim is the system of the method claim 4, and is

rejected for the same reasons provided for the claim 4 rejection above.

7.   As per claim 9; "A method for analyzing a logfile produced by a computer network

security system [entire document, as per description in Chapter 5] comprising:

      providing a regular expression query associated with a pattern to be searched for in the

logfile [entire document, as per description in Chapter 4 (i.e., the compiled, linked and executed

pattern applied to the audit trail, whereas the regular expression query associated with a pattern is

the (i.e., C++) pattern programs).]; and

      using the query to search for the pattern in the logfile [entire document, as per description

in Chapter 4 (i.e., audit trail)];

wherein the pattern is associated with a *sgid* (set group ID) exploit in which a sgid

process is used to spawn another process,

the pattern is associated with processes spawned by a shell, and

using the query to search for the pattern includes

searching for entries showing that the shell has started a process,

storing a process ID of the process, and

searching for entries showing processes with parent process equal to the stored

process ID [entire document, as per description in Chapter 4 (i.e., the compiled, linked

and executed pattern applied to the audit trail, whereas the regular expression query

associated with a pattern is the pattern programs (i.e., pages 2,3,6,10-13,16,29-35,59)

whereas the explicit and implicit use of the sgid (pages 6,25,30,50-54,60) and PID (pages

10,13,15,17-19,21,22,27-29,31-34,37-40,44,50-56,59) terms is taught. Further, see claim

3 rejection above.]

wherein the shell comprises a sgid process with effective group ID equal to zero and

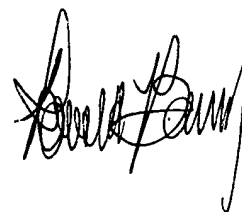group ID (gid) not equal to zero.".

Conclusion

8.   Any inquiry concerning this communication or earlier communications from examiner

should be directed to Ronald Baum, whose telephone number is (571) 272-3861, and whose

unofficial Fax number is (571) 273-3861. The examiner can normally be reached Monday

through Thursday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz Sheikh, can be reached at (571) 272-3795. The Fax number for the organization

where this application is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. For more information for

unpublished applications is available through Private PAIR only. For more information about the

PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ronald Baum

Patent Examiner

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